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NEW DELHI, SATURDAY, JANUARY 14, 1984 (PAUSA 24, 1905)

इस भाग में अलग पृष्ठ सहाया दी जाती है, जिससे कि यह अलग संकलन के रूप में रखा जा सके
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
Patents and Notices issued by the Patent Office relating to Patents and Designs

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PATENTS AND DESIGNS

Calcutta, the 14th January 1984

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417 GI/83

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CORRIGENDUM

In the Gazette of India, Part III, Section 2 dated the 12th November, 1983, in the last page at the end above the words "Controller General of Patents, Designs and Trade Marks" for "DR. K. V. SWAMINATHAN" read "SHANTI KUMAR".

SPECIAL NOTICE

The Qualifying examination as prescribed in clause (c) (ii) of sub-section (1) of Section 126 of the Patents Act, 1970 read out Rule 95 of the Patents Rules, 1972 will be held at the Patent Office, Calcutta and its Branches at Bombay, Madras and New Delhi on Thursday 19th January 1984.

The schedule of the qualifying examination will be as follows :—

Paper I—Patents Act & Rules. 10.30 A.M. to 1 P.M.

Paper II—Drafting and interpretation of Patent Specification and other documents. 2.30 P.M. to 5 P.M.

The Viva Voce Examination will be held on 20th January 1984 at 11 A.M.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017.

8th December, 1983

1503/Cal/83. Zakla dy Tworzysz Sztucznych, 'NITRON-ERG'. Hardly deflagrating nitroglcy cerin explosive.

1504/Cal/83. Fosco International Limited. Treatment agents for molten steel (11th December, 1982).

1505/Cal/83. Union Carbide Corporation. Fuel Compositions.

1506/Cal/83. Polysar Limited. Sulfur vulcanizable polymer compositions. (8th December 1982).

1507/Cal/83. Kabushiki Kaisha Meidensha. Vacuum interrupter.

9th December, 1983

1508/Cal/83. Allied Tube & Conduit Corporation. Coupling.

1509/Cal/83. Dextec Metallurgical Ptv. Ltd. Electrolytic cell for recovery of metals from metal bearing materials. (10th December, 1982).

1510/Cal/83. M. A. N. Maschinenfabrik Augsburg-Nürnberg Aktiengesellschaft. Spark-ignition aircompressing internal combustion engine.

1511/Cal/83. Pont-a-Mousson S. A. Method and apparatus for cutting a cast iron pipe.

1512/Cal/83. Sulzer Brothers Limited. Method of operating an air nozzle weaving machine. (24th December, 1982).

12th December, 1983

1513/Cal/83. Trwinc. Resistormaterial. [Divisional date 1st May, 1980].

1514/Cal/83. International Standard Electric Corporation. Circuit for speech and data transmission.

1515/Cal/83. Fairford Electronics Ltd. Method and apparatus for automatically setting the demand phase lag input to an induction-motor power factor controller (11th December, 1982).

1516/Cal/83. Hoechst Aktiengesellschaft. Process for the manufacture of water-soluble colored compounds. [Divisional date 16th May, 1981].

1517/Cal/83. Hoechst Aktiengesellschaft. Process for the manufacture of water soluble colored compounds. [Divisional date 16th May, 1981].

1518/Cal/83. Hoechst Aktiengesellschaft. Process for the manufacture of water-soluble phthalocytine dyestuffs. [Divisional date 16th May, 1981].

13th December, 1983

1519/Cal/83. Kuraray Co. Ltd. Novel polyester adhesives comprising the same and laminates and laminated hollow vessels made thereof.

1520/Cal/83. Schlumberger Limited. Method and apparatus for electrically determining pipe inside diameter.

1521/Cal/83. Raychem Limited. Fibre optic cable arrangements. (13th December, 1982 and 22nd April, 1983).

14th December 1983

1522/Cal/83. MPD Technology Corporation. A process for preparing cis-diamminedichloro-Platinum (II). [Divisional date 16th August, 1981].

1523/Cal/83. Maschinenfabrik Rieter A. G. Lacing up of thread treating nozzles. [Divisional date 15th September, 1980].

1524/Cal/83. The Boots Company PLC. Preserving agent. (14th December, 1982).

1525/Cal/83. Westinghouse Electric Corporation. Vacuum interrupter contact structure and method of fabrication.

1526/Cal/83. Ambac Industries Inc. Timing control mechanism for a fuel injection pump.

1527/Cal/83. Taprogge Gesellschaft mbH. Equipment for mechanically cleaning cooling water flowing from power station condensers.

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES LOWER PAREL, BOMBAY-13.

1st November, 1983

344/Bom/83. Paynadath Thomas Joy. Improved wheels for air craft.

345/Bom/83. Phiroze Ardeshir Peston Jamas. Weighing scale for LPG cylinder.

346/Bom/83. Phiroze Ardeshir Peston Jamas. A device for dispensing timed dosages of medicine.

3rd November 1983

347/Bom/83. Krishna Kishore Jaiswal. Electrosave miniautomatic switch.

348/Bom/83. Pidilite Industries Pvt. Ltd. A novel type dispensing bottle.

349/Bom/83. Narottamdas Mohanlal Gandhi & others. Trap used for trapping the bigger size crawling insects.

8th November 1983

350/Bom/83. Deep & Deep Industries. A novel nozzle for obtaining cascade or pine (Ashoka) tree shaped fountain.

351/Bom/83. Deep & Deep Industries. A unitary nozzle for obtaining three or more tier lily flower type fountain.

352/Bom/83. Indian Petrochemicals Corporation Ltd. Manufacture of N-mono-substituted amides using cation exchange resin.

353/Bom/83. Indian Petrochemicals Corporation Ltd.
Manufacture of N-mono-substituted amides using
dilute sulphur acid.

9th November 1983

354/Bom/83. Pelagor Mupral Srinivasa Varadan. Integrated
shaft bearing.

10th November 1983

355/Bom/83. Hindustan Lever Ltd. (Conr. U. K./16-11-82)
Detergent composition.

356/Bom/83. Hindustan Lever Ltd. (Conv. U. K./16-11-82)
Detergent composition.

357/Bom/83. Hindustan Lever Ltd. U. K./16-11-82).
Detergent composition.

358/Bom/83. Hindustan Lever Ltd. U. K./16-11-82.
Detergent composition.

359/Bom/83. Hindustan Lever Ltd. U. K./16-11-82.
Detergent composition.

11th November 1983

360/Bom/83. Rameshchandra Raghunath Divekar. Practical
electronics training system.

14th November 1983

361/Bom/83. Powerbuild Ltd. A novel bonderizing process
for aluminium conductors.

15th November 1983

362/Bom/83. Hindustan Lever Ltd. Sulphonation of organic
materials.

17th November 1983

363/Bom/83. Nirmal Pannalal. Centrifugal cyclone.

364/Bom/83. Popat Doorao Adhav. Vishwas perni hujar.

APPLICATIONS FOR PATENTS FILED AT THE
PATENT OFFICE BRANCH, 61, WALLAJAH ROAD,
MADRAS-600 002.

28th November, 1983

231/Mas/83. Dr. S. M. Chakalakal & C. J. Abraham. A
Process for making edible table vinegar from
waste honey.

2nd December, 1983

MAS/83. D. R. Mody & R. T. Bedi. A process for the
manufacture of a silvered substrate and a silvered
substrate when so manufactured.

ALTERATION OF DATE

152443 (223/Cal 82). Ante dated to 12th June, 1978.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in
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CLASS : 157 D₃, 152423

Int. Cl. : E 01 b 27/00, 27/08, 27/20.

APPARATUS FOR RE-LEVELLING RAILWAY
TRACK.

Applicants : BRITISH RAILWAYS BOARD OF 222
MARYLEBONE ROAD, LONDON N.W.1. ENGLAND.
Inventors : JOHN MURRAY WATERS.

Application No. 532/Cal/79 filed May 23, 1979.

Convention date 23rd May, 1978 (21274/78) U.K.

Appropriate Office for Opposition Proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

Apparatus for re-levelling railway track of the kind
having rails fastened to sleepers supported on a ballast bed.
said apparatus comprising first means for lifting the sleepers
off the ballast bed and second means for pneumatically
placing ballast stones by an air stream in the gap formed
between the underside of a lifted sleepers and the under-
lying ballast bed and including a tool which is adapted to
be driven into the ballast bed adjacent a side face of the
sleeper to a depth such that an outlet for the ballast stones
propelled by the air stream is provided at the level of said
gap, characterised in that said tool comprises a member
having a channel for feeding the air stream and the ballast
stones together into said gap said tool being disposed so
that said channel will extend downwardly with its mouth
facing said sleeper side face and the length of said channel
being greater than the depth of the channel.

Compl. specn. 22 pages. Drgs. 3 sheets.

CLASS : 127 I. 152424

Int. Cl. : G 01 m 13/00.

MULTICHANNEL RESISTANCE-CHANGE-TO-
ELECTRIC-SIGNAL CONVERTER.

Applicants : RYAZANSKY RADIOTEKHNIЧЕСKY
INSTITUT-USSR, RYAZAN, ULITSА GAGARINA, 59/1,
U.S.S.R.

Inventors : 1. ANATOLY ALEXANDROVICH
MIKHEEV AND 2. GENNADY IVANOVICH NECHAEV.
Application No. 584/Cal/79 filed June 5, 1979.

Appropriate Office for Opposition Proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A multichannel resistance-change-to-electric-signal conver-
ter comprising a bipolar current pulse train generation unit,
"n" branches, each branch having two series-connected
effective resistance transducers and being connected to the
output of said bipolar current pulse train generation unit
through switch gates, each gate being connected to a centre

tap between the effective resistance transducers of a respective branch, and an operational amplifier whose input resistors are the effective resistance transducers of each branch, one of the effective resistance transducers connected to an inverting input of said operational amplifier and the other to a noninverting input thereof.

Compl. specn. 13 pages, Digs. 4 sheets.

CLASS : 151 C.

152425

Int. Cl. : G 01 v 1/00.

DEVICE FOR EMITTING ACOUSTIC WAVES IN A LIQUID MEDIUM BY IMPLSION OF THE VOLUME OF A CLOSED ENCLOSURE.

Applicants : INSTITUT FRANCAIS DU PETROLE OF 4, AVENUE DE BOIS-PRÉAU 92502 RUEIL MALMAISON, FRANCE.

Inventors : 1. JACQUES CHOLET, 2. PIERRE MAGNEVILLE AND 3. JEAN CASSAND.

Application No. 980/Cal/79 filed September 9, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A device for emitting acoustic waves in a liquid medium by imposition of the volume of a closed enclosure delimited by two rigid members movable with respect to each other from a spaced apart position to a close position, together with at least one flexible membrane, said enclosure cooperating with means for moving said movable members, apart from each other and intermittently maintaining them in a spaced apart relationship, said means comprising a first cylinder secured to one of said movable members, a piston slidable in the first cylinder and provided with a rod adapted to come in contact with a wall integral with the other movable member and a system for distributing pressurized fluid in order to exert on the piston an intermittent pushing force, said system comprising a second cylinder of fixed position with respect to the first cylinder and a source of pressurized fluid, characterized in that the second cylinder comprises a first compartment and a second compartment which communicates intermittently with the first compartment through a first aperture, with the first cylinder through a second aperture and permanently with the external medium through at least one third aperture, and in that the distribution system comprises a valve having a valve rod of smaller section than that of the valve head and movable from a first position where the valve head and the end of the valve rod respectively obturate substantially tightly the first and the second apertures of the second compartment and a second position where said first and second apertures are freed, a channel being provided throughout said valve and in a direction parallel to its longitudinal axis, to feed with pressurized fluid the first cylinder, means for intermittently feeding with pressurized fluid the interior of the first compartment of the second cylinder and means for maintaining intermittently the pressurized fluid in the first cylinder.

Compl. specn. 12 pages, Digs. 4 sheets.

CLASS : 69 A.

152426

Int. Cl. : H 01 h 1/00.

VACUUM SWITCH INCLUDING A GETTER DEVICE.

Applicants : HAZEMEIJER B. V. OF TUINDORPSTRAAT 61, 7550 AA HENGLO, THE NETHERLANDS.

Inventors : JOSEPH HUBERTUS FRANCISCUS GERARDUS LIPPERS.

Application No. 1258/Cal/79 filed November 30, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A vacuum switch comprising a vacuum tight envelop having outer walls of insulation material accommodating contacts mounted on current-carrying rods and capable of movement with respect to one another, an electrically closed, ring-shaped getter element coaxially supported by one of the contact rods provided with a getter material which may absorb any gases present upon evaporation thereof, the getter element being adapted to be heated to cause evaporation of the getter material by having a current induced therein, characterized by a cylindrical metal shield arranged between the getter element and the insulated outer walls of the vacuum switch, said shield being supported by one contact rod and functioning as the surface on which the getter material is deposited and being provided with slots preventing the occurrence of eddy currents in the shield, the getter element emitting the getter material by evaporation at only a single segment of its circumference, this segment and the location of the slots in the shield being situated with respect to one another in such manner that the getter element is situated between the contact rod and the inner wall of the cylindrical shield, so that the contact rod prevents the getter material from emanating through said slots beyond said shield.

Compl. specn. 10 pages, Digs. 2 sheets.

CLASS : 68 E.

152427

Int. Cl. : G 05 f 1/00.

ELECTRICAL DEVICE COMPRISING AT LEAST ONE GAS AND/OR VAPOUR DISCHARGE TUBE.

Applicants : N. V. PHILIPS' GLOEILAMPENFABRIEKEN OF EMMASINGEL, EINDHOVEN, NETHERLANDS.

Applicants : 1. HUBERTUS MATHIAS JOZEF CHERMIN, 2. JOZEF CORNELIS MOERKENS AND 3. ADRIANUS MARTINUS JOHANNES DE BIL.

Application No. 1293/Cal/79 filed December 11, 1979.

Appropriate Office for Opposition Proceedings (Rule Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

An electrical device comprising at least one gas and/or vapour discharge tube, provided with a preheatable electrode, and means for igniting and feeding that discharge tube, the device having two input terminals which are interconnected by a series arrangement of the discharge tube(s) and a stabilization ballast which includes a capacitor, the input terminals being intended for connection to an a-c. voltage source, the r.m.s. voltage value in volts of which is between 0.65 VB and 1.4 VB, where VB is the total arc voltage in volts of the discharge tube(s) disposed in the series arrangement, and wherein that end of the preheatable electrode which faces away from the input terminals is connected to another tube electrode—which is included in the series arrangement—through a circuit comprising a semi-conductor switching element, and, in the operating condition of the discharge tube, this switching element is made conductive by a control circuit in the second half of each half cycle of the supply, characterized in that the two electrodes are interconnected via a non-linear circuit element which element when the arrangement is switched on, is responsive to the potential different between the electrodes, and has a lower ohmic value prior to the ignition than during the operating condition of the discharge tube.

Compl. specn. 17 pages, Drg 1 sheet.

CLASS : 31 C.

152428

Int. Cl. : B 28 d 5/00.

A METHOD OF FORMING AN IRRADIATED REGION OF A DESIRED THICKNESS, DOSAGE AND DOSAGE GRADIENT IN MATERIALS SUCH AS SEMI CONDUCTOR BODIES BY NUCLEAR RADIATION.

Applicants : WESTINGHOUSE ELECTRIC CORPORATION OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. JOHN BARIKO AND 2. EARL STAUFER SCHLEGEL.

Application No. 1330/Cal/79 filed December 20, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A method of forming an irradiated region of a desired thickness, dosage and dosage gradient in materials such as semiconductor bodies by nuclear radiation which comprise the steps of :

providing a radiation source;

positioning a selected surface of said material with respect to the radiation source;

positioning a beam modifier of a given material and non-uniform shape to form a transmitted radiation beam capable of forming an irradiated region of a desired thickness and dosage gradient in the material a given distance from a selected surface irradiation of the material through the selected surface with the transmitted radiation beam;

said radiation source radiating particles with molecular weight of at least one (1) capable of penetrating a material to greater than a desired depth; and

thereafter irradiating the material to provide said irradiated region having a desired thickness, dosage and dosage gradient.

Compl. specn. 19 pages. Drgs. 5 sheets

CLASS : 40 F. 152429

Int. Cl. : B 01 j 1/00, G 01 n 11/02, 21/46.

AN APPARATUS FOR OBTAINING FROM A POLYMERIZATION REACTOR A SAMPLE OF POLYMER.

Applicants : POLYSAR LIMITED OF SARNIA, ONTARIO, CANADA.

Inventors : 1. JOSEPH MILLS HULME AND 2. MILLIAM ELMER THIBODEAU.

Application No. 1346/Cal/79 filed December 27, 1979.

Convention Date 28th March, 1979 (324, 302/79) Canada.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

An apparatus for obtaining from a polymerisation reactor a sample of polymer dissolved in one or more hydrocarbon diluents and for determining the polymer content of said sample and a molecular weight of said polymer, which apparatus in association with a polymerization reactor means, a line for removing from said reactor means a polymeric product dissolved in one or more hydrocarbon polymerization diluents and a means for storing hydrocarbon solvent, is characterized in that it comprises in combination :

(a) valve means for the removal from said line of an essentially constant volume sample of said polymeric product dissolved in said diluent,

(b) dilution means for adding hydrocarbon solvent to and mixing with said essentially constant volume sample to provide an essentially constant volume of dilute polymer solution,

(c) a line for transferring said dilute polymer solution to a selector valve.

(d) a first line from said selector valve for transferring a constant volume of said dilute polymer solution to a solution viscometer means which is maintained at an essentially constant temperature,

(e) line for transferring hydrocarbon solvent to said solution viscometer means,

(f) a second line from said selector valve for transferring a constant volume of said dilute polymer solution to one or more gel permeation chromatographic column,

(g) line for transferring hydrocarbon solvent to said gel permeation chromatographic columns.

(h) means for causing said dilute polymer solution to flow through a capillary in said solution viscometer means and to activate a timing device to determine and record the flow time for the flow through said capillary of a constant volume of said dilute polymer solution.

(i) means for causing said hydrocarbon solvent to flow through said capillary in said solution viscometer means and to activate a timing device to determine and record the flow time for the flow through said capillary of a constant volume of said hydrocarbon solvent.

(j) means for causing the flow through said one or more gel permeation chromatographic columns of hydrocarbon solvent at an essentially constant rate of flow,

(k) means for determining and recording the refractive index difference as a function of time for the effluent from said one or more gel permeation chromatographic columns, said refractive index difference being the difference between the refractive index of the column effluent and that of a control fluid.

(l) micro computer means programmed to control the operation of the apparatus, to determine and record said flow times from said solution viscometer means, to record said refractive index difference as a function of time and to calculate from said refractive index difference the polymer content of said sample and from said flow times and polymer content a molecular weight of said polymer, and

(m) recorder/display means for providing the data calculated in (l); and if desired

(n) a second means for storing a second hydrocarbon solvent.

Compl. specn. 34 pages. Drgs. 5 sheets.

CLASS : 32 D. 152430

Int. Cl. : B 01 j 11/00, C 07 l 9/02.

HYDROCARBON-SOLUBLE DIALKYL-MAGNESIUM COMPOSITION.

Applicants : TEXAS ALKYLIS, INC. OF WESTPORT, CONNECTICUT, UNITED STATES OF AMERICA.

Inventors : 1. LOYD WAYNE FANNIN, 2. DENIS BENEDICT MALPASS AND 3. RAMIRO SANCHEZ.

Application No. 62/Cal/80 filed January 17, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A process for preparing a hydrocarbon-soluble dialkyl-magnesium composition of matter comprising at least one of the combinations of dimethylmagnesium and di-n-propylmagnesium, diethylmagnesium and di-n-propylmagnesium, and dimethylmagnesium, diethylmagnesium and di-n-propylmagnesium, in which the relative amounts of the dialkyl-magnesium compounds when present are

(a) 10 to 80 mole percent dimethylmagnesium,

(b) 10 to 80 mole percent diethylmagnesium, and

(c) 10 to 80 mole percent di-n-propylmagnesium, and which composition optionally comprises a solvent selected from the group consisting of aliphatic, cycloaliphatic, and aromatic hydrocarbons containing 5 to 20 carbon atoms, inclusive, said process comprises reacting metallic magnesium with corresponding alkylhalides in predetermined amounts either simultaneously or in any other of succession.

Compl. specn. 19 pages. Drg. Nil.

CLASS : 141 B.

152431

Int. Cl. : C 22 b 1/08.

PROCESS FOR UPGRADING IRON-CONTAINING MATERIALS BY THE REMOVAL OF IRON THEREFROM.

Applicants : LAPORTE INDUSTRIES LIMITED OF HANOVER HOUSE, 14 HANOVER SQUARE, LONDON W1R 0BE, ENGLAND.

Inventors : MICHAEL ROBINSON.

Application No. 196/Cal/80 filed February 21, 1980.

Convention date. 21st February, 1979 (06157/79) U. K. & 23rd October, 1979 (36646/79) U. K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

23 Claims.

A process for upgrading a material containing oxide of iron in combination with oxide of chromium by reacting at least a portion of the iron content thereof with chlorine and removing the resulting iron chloride as vapour, characterised in forming a fluidised bed having an expanded bed depth of at least 1 metre said bed comprising the said material in finely divided form and finely divided carbon, the carbon being present in the bed in at least sufficient quantity to react with any oxygen added to or evolved in the bed and in at least 15% of the total weight of the carbon and of the said material, maintaining a reaction temperature of from 900°C to 1100°C in the bed, admitting to the bed gases comprising from 20% to 60% by volume of chlorine, from 0% to 10% by volume of oxygen, and inert diluent gas and reacting the chlorine with iron present in the said material to produce ferrous chloride while controlling the partial pressure of ferrous chloride in the bed, when the reaction temperature is not greater than 1000°C, at less than $0.006 (T-900) \div 0.2 \times 10^3 \text{ N/m}^2$ by controlling the concentration of chlorine in the gases admitted to the bed within the above specified range of 20% to 60% by volume and removing the gaseous ferrous chloride-containing effluent from the bed and recovering the residual upgraded chromium containing bed material.

Compl. specn. 19 pages. Drg. Nil.

CLASS : 90 I.

152432

Int. Cl. : C 03 c 1/00.

PROCESS FOR OBTAINING A GRANULAR LEAD ADDITIVE CAPABLE OF BEING USED INTER ALIA IN THE GLASS INDUSTRY.

Applicants : SOCIETE MINIERE ET METALLURGIQUE DE PENARROYA S. A. OF TOUR MAINE-MONTPARNASSE 33, AVENUE DU MAINE 75751 PARIS CEDEX 15 FRANCE.

Inventors : 1. ARMARD LIMARE AND 2. BERNARD RAZUMOWSKI.

Application No. 274/Cal/80 filed March 10, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

Process for obtaining a granular lead additive capable of being used inter alia in the glass industry e.g. in crystal

works and the ceramic industry, characterized by the fact that it comprises the following steps :

(a) a lead oxide is mixed with all or part of a given quantity of a water soluble alkaline silicate to obtain a malleable paste;

(b) the product obtained in step (a) is conditioned in such a way as to obtain granulates of appropriate size;

(c) the product issuing from step (b) is subjected to a heat treatment.

Compl. specn. 2 pages. Drg. Nil.

CLASS : 93.

152433

Int. Cl. : C 04 b 5/02.

METHOD FOR TREATING METALLURGICAL SLAG MELTS.

Applicants : URALSKY NAUCHNO-ISSLEDOVATELSKY INSTITUT CHERNYKH METALLOV OF SVERDLOVSK, PROSPEKT LENINA, 101, KORPUS 2, U.S.S.R.

Inventors : 1. VLADIMIR IVANOVICH BURLAKOV, 2. YAKOV SHMULEVICH SHKOLNIK, 3. VLADISLAV GENNADIEVICH BARYSHNIKOV, 4. VITALY ANTONOVICH SATSKY AND 5. VASILIEVICH VSILIEVICH KORMYSHEV.

Application No. 651/Cal/80 filed May 31, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim.

A method for treating metallurgical slag melts, comprising breaking up the melt into droplets by an aqueous solution containing froth surfactants taken in an amount of 0.2 to 1.5 per cent by weight of water, said froth surfactants consisting of, for example, dodecylaminacetate, sodium dodecylsulphate, isoamyl and other surfactants.

Compl. specn. 8 pages. Drg. 1 sheet.

CLASS : 107 G.

152434

Int. Cl. F 02 d 31/00.

AN APPARATUS FOR CONTINUOUSLY SENSING THE INSTANTANEOUS SPEED OF AN ENGINE.

Applicants : CUMMINS ENGINE COMPANY, INC. OF 1000 FIFTH STREET, COLUMBUS, INDIANA 47201 U.S.A.

Inventors : 1. DAVID L. REID. 2. DENNIS O. TAYLOR AND 3. DONALD J. BROTT.

Application No. 686/Cal/80 filed June 11, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

An apparatus for continuously sensing the instantaneous speed of an engine including a part that moves in a path of movement and at a speed related to the engine speed during operation of the engine, the part having at least one index point thereon, said system comprising a sensor for mounting on the engine adjacent the moving part, said sensor including two spaced sensing elements mounted thereon at fixed locations, said sensor being mounted with said two elements spaced apart along said path and in the direction of movement of the index point as the part moves, said elements providing a pair of signals when the index point moves past said sensor, and processor means connected to said two elements for substantially continuously determining instantaneous engine speed, said processor

means including oscillator means, counter means connected to receive the output of said oscillator means and to count the cycles of oscillation thereof, means, connected to receive said signals from said two spaced sensing elements and to measure the time interval therebetween, means for calculating a conversion factor based on the frequency of said oscillator means, and means for calculating the instantaneous engine speed by dividing said conversion factor by said time interval.

Compl. specn. 17 pages. Drgs. 5 sheets.

CLASS : 166 C. 152435

Int. Cl. : B 63 h 23/34.

IMPROVEMENTS IN MARINE PROPELLERS COMPRISING TWO OR MORE BLADES.

Applicants : WOODCOXON ENGINEERING (INTERNATIONAL) LIMITED OF LAMOTTE CHAMBERS, ST. HELIER, JERSEY, CHANNEL ISLANDS.

Inventors : 1. JOHN RICHARD COXON.

Application No. 794/Cal/80 filed July 10, 1980.

Convention date : 7th September, 1979 (31100/79) U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A marine propeller comprising two or more blades which are pivotally mounted on a hub so that they are free to pivot about axes extending radially outwards from the hub, the pivot axes being displaced rearwardly, considered in relation to the direction in which, in operation, the propeller moves axially through the water, of the pressure faces of the blades, wherein the blades and their pivot axes have the following features :—

(a) The blades are helicoidal;

(b) The mass distribution of each blade relative to its pivot axis is such that the centre of mass of the blade is spaced behind the pivot axis of the blade considered in relation to the direction of rotation of the blade and such that, when the propeller is rotated, in the absence of hydrodynamic forces, centrifugal effects cause the blade to adopt a pitch substantially equal to the pitch of the helicoid;

(c) Each blade is raked rearwardly relative to the propeller plane with a mean angle of rake of at least 10° multiplied by the Pitch Ratio of the propeller and divided by the Aspect Ratio of the blade, the Pitch Ratio and the Aspect Ratio being as hereinbefore defined; and

(d) Each blade has a skewed-back shape with the trailing tip of the blade spaced behind the pivot axis of the blade, considered in relation to the direction of rotation of the blade, by a distance equal to at least 60% of the maximum width of the blade, and the position of the pivot in relation to the shape and the rake angle of the blade is such that, in operation, hydrodynamic lift and drag on the blade acting in combination with the centrifugal effects causes the blade to adopt, over a range of rotational and axial speeds a position such that it has an angle of incidence to the stream of water passing over it which produces a substantially optimum thrust.

Compl. specn. 15 pages. Drgs. 3 sheets.

CLASS : 64 Ba. 152436

Int. Cl. : H 01 r 7/00.

CABLE FITTING HAVING A PLUG-IN ELEMENT.

Applicants : SIEMENS AKTIENGESELLSCHAFT OF BERLIN AND MUNICH, WEST GERMANY.

Inventors : 1. LOTHAR GOELICH AND 2. JURGEN HAUG.

Application No. 859/Cal/80 filed July 25, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A cable fitting having a plug-in element for establishing an electrical plug connection of the conductor of a medium or high voltage cable which is made of material selected from the group consisting of copper and aluminium and is covered with insulation, said cable disposed within a pre-fabricated member comprising a one-piece solid plug part and a press sleeve including two coaxially arranged inner and outer sleeve layers joined together with a material bond, the improvement comprising, the inner sleeve layer being made of material selected from the group consisting of copper and aluminium and the outer sleeve layer consisting of steel, the outer diameter of the outer sleeve layer being smaller than the outer diameter of the insulation on said cable, whereby said inner sleeve layer will perform the function of an electrical conductor and said outer sleeve layer will perform the function of a press sleeve having high mechanical strength.

Compl. specn. 9 pages. Drg 1 sheet.

CLASS : 29 D. 152437

Int. Cl. : G 06 f 3/04.

PHOTO-OPTICAL KEYBOARD.

Applicants : BURROUGHS CORPORATION OF BURROUGHS PLACE DETROIT, MICHIGAN 48232, UNITED STATES OF AMERICA.

Inventors : 1. EDWARD IRWIN NELSON.

Application No. 932/Cal/80 filed August 14, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A photo-optical keyboard comprising :

A keyboard housing having a matrix of rows and columns of apertures for keys, each said aperture having one or more ridges on the inside surface of said apertures, and

multiple keys each shaped to said apertures, each said key further having one or more flexible fingers in its side walls, said flexible fingers having ridges thereon, the ridges on said flexible fingers making contact with the ridges on the inside surface of said apertures during key depression to provide a tactile feel.

Compl. specn. 13 pages. Drgs. 6 sheets.

CLASS : 129 G. 152438

Int. Cl. : B 21 b 25/00.

METHOD FOR MANUFACTURING A PIERCING MANDREL.

Applicants : 1. VSESOUZNY ZAOCHNY MASHINOSTROITEL'NY INSTITUT OF 5 BABAEVSKAYA ULITS, 3-A, MOSCOW, USSR. 2. DNEPROPETROVSKY TRUBOPROKATNY ZAVOD IMENI V. I. LENINA OF DNEPROPETROVSK. ULITS, MAYAK OVSKOGO, 3, USSR AND 3. NIKOPOLSKY JUZHNO-TTRUBNY ZAVOD OF NIKOPOL, DNEPROPETROVSKOI OBI ASTI, USSR

Inventors : 1. BORIS DAVIDOVICH KOPYSKY. 2. VIKTOR DMITRIYEVICH DMITRIYEV. 3. GEORGY IOSIFOVICH KHAUSTOV. 4. VIKTOR MOISEVICH BRODSKY. 5. VITAIY ANDREEVICH SURZHNIKOV. 6. FVGENY IVANOVICH SEMENOV. 7. VLADIMIR GERASIMOVICH CHUS. 8. VIKTOR ALEXANDROVICH MISIULYA. 9. LEONID FEDOROVICH KANDYBA. 10. IGOR PAVLOVICH IVANOV. 11. GRIGORY IVANOVICH BEZZUB. 12. YASHA PROIMOVICH GOIDENBERG. 13. IL'YA SEMENOVICH ZONNENBERG. 14. ALEXANDR GRIGORIEVICH PALLY AND 15. ARKADY SEMENOVICH MALKIN.

Application No. 984/Cal/80 Filed August 27, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A method of manufacturing a piercing mandrel being spindle-shaped in form and having an axial, dead x-end conical cavity formed on the side of the mandrel fitting section, a nose formed at the end of the mandrel working section, and sizing band arranged between the working and fitting sections, comprising :

performing a blank with a conical cavity by way of hot piercing;

subjecting the blank to hot upset forging preceded by sizing said cavity so that the outer diameter, at the end face of the fitting section, is reduced to be from 0.9 to 1.02 times the diameter of the mandrel sizing band, the outer diameters of the mandrel working section and nose being from 0.9 to 1 time the diameters of the respective sections of the mandrel, and in the wall thickness at the fitting and working sections being from 0.7 to 1 time the wall thickness of the mandrel;

subjecting the fitting section of the mandrel to deformation effected simultaneously with upset forging of the working section thereof, and performing final sizing of the said cavity of the mandrel.

Compl. specn. 16 pages. Drg. 1 sheet.

CLASS : 116 C.

152439

Int. Cl. : B 65 e 17/00

CONVEYING EQUIPMENT FOR A MINING MACHINE.

Applicants : VOFST-ALPINE AKTIENGESELLSCHAFT OF A 1011 VIENNA, FRIDRICHSTRASSE 4, AUSTRIA.

Inventors : 1. ARNOLF KISSICH AND 2. WALTER ARBEITTHUBER.

Application No. 1035/Cal/80 filed September 10, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

4 Claims.

A conveyor equipment for a mining machine, said equipment comprising a conveyor trough, said trough having a fore end, a rear end, a bottom and two side walls, a number of drive elements being interconnected by at least one endless chain and adapted to move about along the middle of the trough, said chain being driven by a spider-wheel at the rear end of the conveyor trough and guided by a non-driven return spider, the rear portion of the conveyor trough being horizontally pivotable about a vertical axle provided at the fore-part of the trough whilst the axle of the spider wheel is displaceable in the direction of the trough in accordance with the changing conveying length of the chain, this conveying equipment being characterized in that an element, joined to the axle of the spider wheel is connected, through a regulating element, to the pivotable portion of the conveyor trough, and that a control element at a distance from the pivot axle of the trough is hinged both at the stationary portion and at the pivotable portion of the trough and that the regulating element and the control element are interconnected.

Compl. specn. 10 pages. Drgs. 2 sheets.

CLASS : 65 B.

152440

Int. Cl. : H 02 k 9/00.

HEAT EXCHANGERS

Applicants : WESTINGHOUSE ELECTRIC CORPORATION OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. DALE WHITE, 2. DAVID LEE AYERS AND 3. ALLAN EUGENE HIRIBAR.

Application No. 1054/Cal 80 filed September 16, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

25 Claims

A heat exchanger for removing heat from a fluid which is used to cool an electrical power apparatus by transferring heat from the fluid to air within the heat exchanger, comprising :

an elongated housing which in use is disposed with its length extending vertically, and has substantially covered sides;

a heat-exchange tube-core disposed within said housing and having fluid inlet and outlet means adapted for fluid flow communication with the electrical power apparatus to be cooled;

air inlet means a substantially the lower end of at least one side of the housing to admit air in a horizontal direction, including guide means to direct the airflow smoothly upward;

air outlet means at substantially the upper end of at least one side of the housing to exhaust the air admitted at the lower end, the exhaust being smoothly directed from a vertical direction to a substantially horizontal direction;

air moving means disposed in the housing adjacent to said tube coil and operative to move air vertically upward through the housing, past the tube core and in contact therewith; and

acoustic members disposed in said housing to guide the airflow and to minimize noise levels, said acoustic members being located above said tube core and air moving means, and below said tube core and air moving means.

Compl. specn. 26 pages. Drgs. 2 sheets.

CLASS : 190 B.

152441

Int. Cl. : F 15 c 3/00, 4/00.

HYDRAULIC DRIVE APPARATUS FOR TURBINE VALVES.

Applicants : KRAFTWERK UNION AKTIENGESELLSCHAFT, 433 MULHEIM (RUHR), WIESSENSTR. 35, FEDERAL REPUBLIC OF GERMANY

Inventor : DR. WERNER TRASSI

Application No. 502/Cal/81 filed May 13, 1981.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

Hydraulic drive apparatus for a turbine valve, which comprises : a hydraulic cylinder, which, in use, is connected to the valve; a hydraulic control unit for controlling the supply of hydraulic fluid to the hydraulic cylinder, and a hydraulic supply system which is connected to the hydraulic control unit and which comprises a fluid pump which is supplied from a hydraulic fluid container and a hydraulic pressure accumulator connected to an output of the fluid pump; wherein the hydraulic cylinder, the hydraulic control unit and the hydraulic supply system are integral with one another to form a drive unit which, in use, is disposed on a valve housing.

Compl. specn. 17 pages. Drgs. 3 sheets.

CLASS : 99 C.

152442

Int. Cl. : B 65 d 7/12.

METAL CONTAINERS AND THEIR MANUFACTURING METHOD AND APPARATUS.

Applicants : NITTETSU STEEL DRUM CO. LTD. OF 7-10 GINZA 1—CHOME CHUO-KU TOKYO, JAPAN.

Inventors : 1. MAKOTO INOUE, 2. HIROFUMI IRIE, 3. YUICHI KOBAYASHI AND 4. TETUO KUBOTA.

Application No. 1097/Cal/81 filed September 30, 1981.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A method of manufacturing a metal container which comprises the steps of :

fitting an end plate in an end of a cylindrical body so that a body flange formed by bending the edge of the body outward perpendicular to the body axis overlaps an end-plate flange formed by bending the edge of a tray-like end plate outward to extend along and beyond the body flange,

holding the body and end plate together with a seaming chuck having a cylindrical forming face, the seaming chuck being fitted in the indented part of the end plate, and

sequentially pressing down a seaming roll and a finishing roll, each having a circumferential forming groove opening toward the forming face of the seaming chuck, the forming face of the seaming chuck being rotated so that the forming groove seams the body and end plate flanges into a triple seam, the improvement comprising the steps of

nip-bending the edge of the end plate flange with the first (entry-side) corner of the forming groove in the finishing roll,

seaming together the body and end plate flanges with the forming groove of the seaming roll, and then, after completion of seaming,

finishing press forming the seam into a desired shape with the forming groove of said finishing roll.

Compl. specn. 23 pages. Drgs. 6 sheets.

CLASS : 72 B.

152443

Int. Cl. : C 06 b 1/00.

IMPROVED CAP-SENSITIVE SMALL DIAMETER SLURRIED EXPLOSIVE COMPOSITION AND METHOD FOR THE PRODUCTION THEREOF.

Applicants : INDIAN EXPLOSIVES LIMITED OF ICI HOUSE, 34 CHOWRINGHEE ROAD, CALCUTTA-700071, WEST BENGAL, INDIA.

Inventors : 1. GAUTAM SEN, AND 2. SOUMENDRA NATH SEN.

Application No. 223/Cal/82 filed February 26, 1982.

Division of Application No. 643/Cal/78 filed 12th June, 1978.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A cap-sensitive small diameter slurried explosive composition comprising one or more oxidizer salts such as herein described, at least one fuel such as herein described, one or more conventional gelling agents, one or more conventional cross-linking agents and as sensitising agent an

improved sensitising liquor comprising a mixture of an excess of ammonium nitrate with hexamine dispersed in water to which formaldehyde or a polymeric form thereof has been added slowly under stirring and subjection to heat until a clear liquor results.

Compl. specn. 18 pages. Drg. Nil.

CLASS : 131 B.

152444

Int. Cl. : E21d-11/00, 15/00, 17/00.

"FACE SPRAG FOR MINING EQUIPMENT".

Applicant : FLETCHER SUTCLIFFE WILD LIMITED, a British Company, of Universal Works, Horbury, Wakefield, West Yorkshire WF4 5HR, England.

Inventors : LEWIS ROBERT BOWER & ARTHUR SCARFE.

Application for patent No. 491/Del/79 filed on 6th July, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

19 Claims.

A face sprag for mining equipment comprising a sprag plate, a piston and cylinder unit pivotally attached at one end about a first pivot axis to the sprag plate and at the other end about a second pivot axis to a portion of a support member, a link means pivotally attached at one end about a third pivot axis to the piston and cylinder unit and at the other end about a fourth pivot axis to the support member at a location spaced from the second pivot axis, all the pivot axes being parallel, and pressurisation of the piston and cylinder unit urging the sprag plate, in use, into engagement with the mineral face.

(Complete specification 14 pages. Drawing 2 sheets).

CLASS : 24-(A+B).

152445

Int. Cl. : F 16 d 55/10.

IMPROVEMENTS IN DISC BRAKES.

Applicant : LUCAS INDUSTRIES LIMITED, GREAT KING STREET, BIRMINGHAM-19, ENGLAND.

Inventor : SIGMA MICKE.

Application No. 88/Mas/81 filed May 2, 1981.

Convention date : May 9, 1980 (No. 15486-United kingdom).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

18 Claims.

A disc brake of the kind set forth in which the pressure plate comprises separate inner and outer concentric rings for engagement with complementary inner and outer regions of the friction lining, an hydraulic annular piston and cylinder assembly acts directly on one of the rings to urge it axially into engagement with the disc, and balls, are located in complementary oppositely inclined recesses in the other of the rings and in a complementary member so that upon relative angular movement therebetween the said other ring also moves axially due to the movement of the balls as they tend to ride out of the recesses, the hydraulic piston and cylinder assembly being operated from a supply of hydraulic fluid, and the said other ring being movable angularly independently of the said one ring for parking or emergency braking by mechanically operable means.

(Com.-15 pages; Drwgs.4 sheets.)

CLASS : 167.

152446

15 Claims.

Int. Cl. : B 07 b 1/08.

A SIFTER FOR MECHANICAL GRADING OF ARTICLES OF DIFFERENT SIZES.

Applicant & Inventor : YESURATHINAM VINCENT,
OF MESSRS BLUE MOUNTAIN ENGINEERS,
COONOOR-643 101, NILGIRI DISTRICT, TAMIL
NADU.

Application No. 103/Mas/81 filed May 25, 1981

Complete specification left August 24, 1982.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims.

A sifter for mechanical grading of articles of different sizes comprising a sieve unit consisting of a number of sieve trays of different mesh size disposed one above the other and linked together, said sieve unit being held on a structural frame which is rotatably mounted on at least three vertically disposed crankshafts each of which is rotatably housed within a housing, one of the said crankshaft being driven by a motor whose drive is transmitted through a right angle onto said crankshaft in a conventional manner.

(Prov.—4 pages; Com.—7 pages; Drwgs.—2 sheets one of size 33.00 CMS. BY 41.00 CMS.)

CLASS : 5A.

152447

Int. Cl. : A 01 b 3/24.

IMPROVEMENTS IN OR RELATING TO PLOUGH ASSEMBLY.

Applicant & Inventor : NAGARATHINA ACHARI
MANI ACHARI, USSOOR, USSOOR POST, VELLORE,
VELLORE TALUK, NORTH ARCOT DISTRICT, PIN
CODE NO.—632 105, TAMIL NADU.

Application No. 119/Mas/81 filed June 6, 1981.

Appropriate office for opposition proceedings, (Rule 4,
Patents Rules, 1972), Patent Office, Madras Branch.

1 Claim.

A plough assembly comprising a triangular frame, on one side of the said frame, plurality of ploughs are attached, and another side of the said triangular frame is coupled with one end of axle or shaft support, the other side of the axle support is fastened to the central shaft, of the tractor means for operating the tractor while in use and means for varying the depth of the plough.

(Com.—4 pages; Drwgs.—1 sheet).

CLASS : 60-F.

152448

Int. Cl. : A 41 b 9/02.

IMPROVEMENTS IN OR RELATING TO BRIEF.

Applicant & Inventor : ARIKESAVANALLUR VEN-
KATARAMAN KRUSHNUN, 60, BHEEMANNA
MUDALI GARDEN STREET, MADRAS-600 018, TAMIL
NADU.

Application No. 179/Mas/81 filed September 29, 1981.

Complete specification left September 15, 1982.

Appropriate office for opposition proceedings, (Rule 4,
Patents Rules, 1972), Patent Office, Madras Branch.

An improved brief consisting of a fabric part which around its upper periphery is provided with a waist band for securing the brief in position, said fabric part comprising a back piece whose sides are stitched to a pair of side pieces which, in turn, are stitched at their other sides to a pair of centre pieces overlying each other, said back, centre and side pieces having appropriate configuration to create a pair of thigh openings, and one side of each said centre piece being provided with an opening having a length of at least one fourth of the total length of the brief.

(Com.—11 pages; Drwgs.—1 sheet of size 33.00 cms. by 41.00 cms.)

OPPOSITION PROCEEDINGS**(1)**

AN opposition has been entered by Diamond Engineering Corporation to the grant of a patent on application No. 151631 made by the Raja Bahadur Motilal Poona Mills Limited.

(2)

An opposition has been entered by Council of Scientific & Industrial Research to the grant of a patent on application No. 151626 made by Lakhbir Singh.

PATENTS SEALED

147392 147511 151145 151274 151324 151382 151383 151390
151393 151394 151395 151396 151399 151400

RENEWAL FEES PAID

119816 120376 124693 124825 125177 125195 129856 134077
134135 134278 134880 136941 137562 137858 137939 138239
139363 139830 140265 140428 141031 142537 142600 143170
143457 143484 143830 144835 145028 145168 145385 145446
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148849 149140 149461 149483 149573 149997 150363 150380
150711 150741 150759 150804 150863 150864 150865 150921
150985.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 152807. Honlock Toyo die-casting Company
Upper Fort, Shaikh Dawood, Aligarh-202001,
Uttar Pradesh, India. An Indian Partnership
Firm. "Lock". 1st March, 1983.

Class 1. No. 152808. Honlock Toyo die-casting Company
Upper Fort, Shaikh Dawood, Aligarh-202001,
Uttar Pradesh, India. An Indian Partnership
Firm. "Lock". 1st March, 1983.

Class. 1. No. 153313. Vinod Stainless Steel Works, a registered Indian Partnership firm, registered under the Indian Partnership Act, 1932, having Office at 53, 2nd Bhoviwada, Bombay-400 002, Maharashtra, India. "BOWL". 28th July 1983.

Class. 1. No. 153314. Vinod Stainless Steel Works, a registered Indian Partnership firm, registered under the Indian Partnership Act, 1932, having Office at 53, 2nd Bhoviwada, Bombay-400 002, Maharashtra, India. "BOWL". 28th July, 1983.

- Class. 1. No. 153190. Geep Industrial Syndicate Limited (formerly known as Geep Flashlight Industries Limited), Manufacturers, of 28, South Road, Allahabad, Uttar Pradesh India, an Indian Company. "a Torch". 9th June, 1983.
- Class. 1. No. 153065. Satwant Singh Sidhu, of B-XX-468, Krishna Nagar, Civil Lines, Ludhiana, India, an Indian national. "Washing Machine". 4th May, 1983.
- Class. 1. No. 153444. Genelec Limited (an existing Company under the Companies Act), at Hindlight House, Subhash Road, Jogeshwari (East), Bombay-400 060, Maharashtra State, India. "Lighting Fitting". 7th September, 1983.
- Class. 1. No. 153200. Peice Electronics and Electricals Limited, of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay 18 (WB), Maharashtra State, India, an Indian Company. "a Stereo Cassette Deck". 14th June, 1983.
- Class. 3. No. 153369. Murphy India Limited, an Indian Company, existing under the Companies Act, 1956, having its registered office at Ceat Mahal, 463, Dr. Annie Besant Road, Worli, Bombay-400025, State of Maharashtra, India. "Television Cabinet". 25th August, 1983.
- Class. 3. No. 153371. Murphy India Limited, an Indian Company, existing under the Companies Act, 1956, having its registered office at Ceat Mahal, 463, Dr. Annie Besant Road, Worli, Bombay-400025, State of Maharashtra, India. "Television Cabinet". 25th August, 1983.
- Class. 3. No. 153201. Peice Electronics and Electricals Limited, of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay 18 (WB), Maharashtra State, India, an Indian Company. "a Stereo Cassette Deck". 14th June, 1983.
- Class. 3. No. 153440. Nilkamal Plastic & Allied Industries, 5, Rewa Chambers, first floor, New Marine Lines, Bombay-400 020, Maharashtra, an Indian Partnership Firm. "Baby Bath Tub". 7th September, 1983.
- Class. 3. No. 153517. Prince Plastics, 312, Churchgate Chambers, 5, New Marine Lines, Churchgate, Bombay-400020, Maharashtra State, an Indian Partnership Firm. "Water Bottle". 1st October, 1983.
- Class. 5. No. 153432. M/s. Magnetic Health Centre, 60, D.V. Pradhan Road, Hindu Colony, Dadar, Bombay-400 014, Maharashtra, an Indian Partnership Firm. "Magnetic Health Band". 3rd September, 1983.
- Extn. of Copyright for the Second period of five years.
- NO. 148047. Class-1.
- NO. 148183. Class-3.
- Extn. of Copyright for the Third Period of five years.
- NOS. 141070, 148047. Class-1.
- NO. 148183. Class-3.

SHANTI KUMAR

Controller General of Patents, Designs
and Trade Marks.

